

FIG. 1  
PRIOR ART

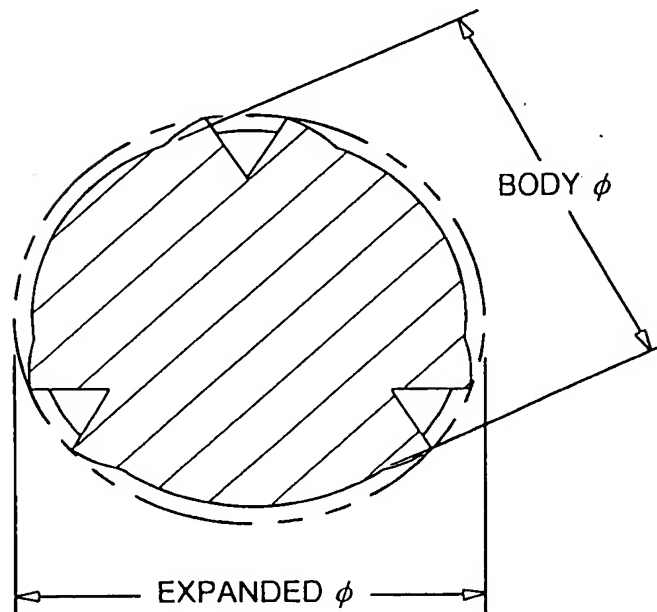


FIG. 2  
PRIOR ART

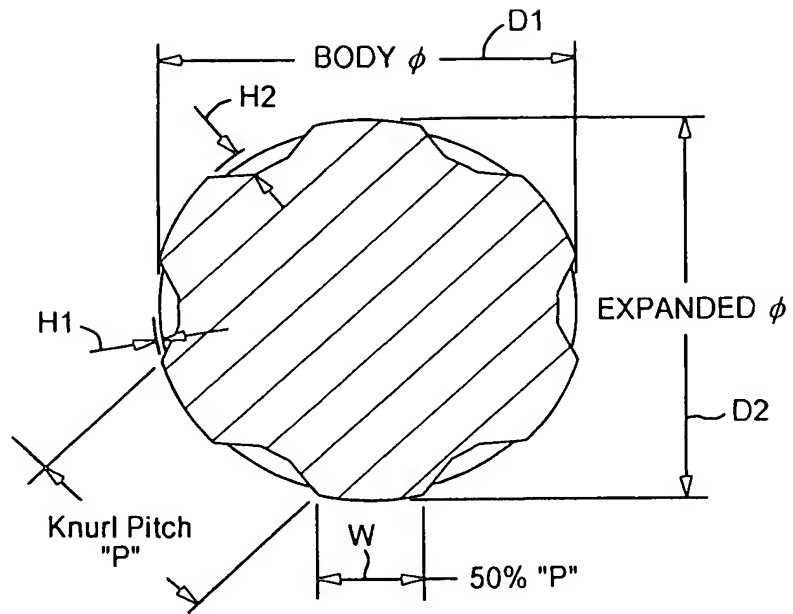


FIG. 3

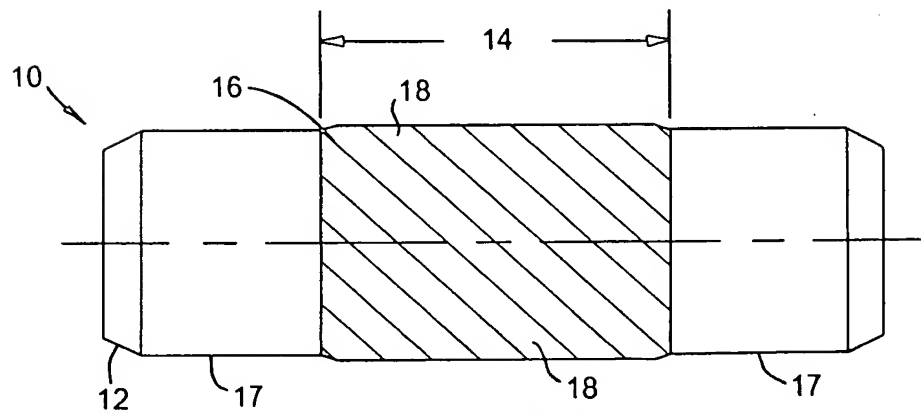


FIG. 4

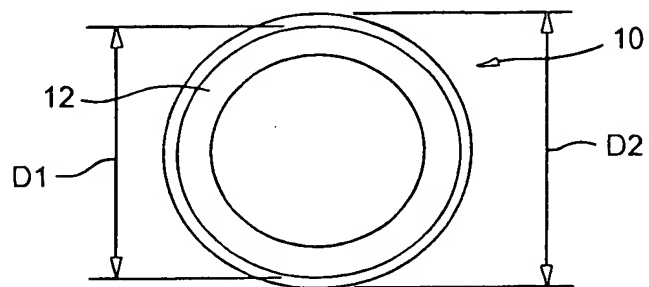


FIG. 5

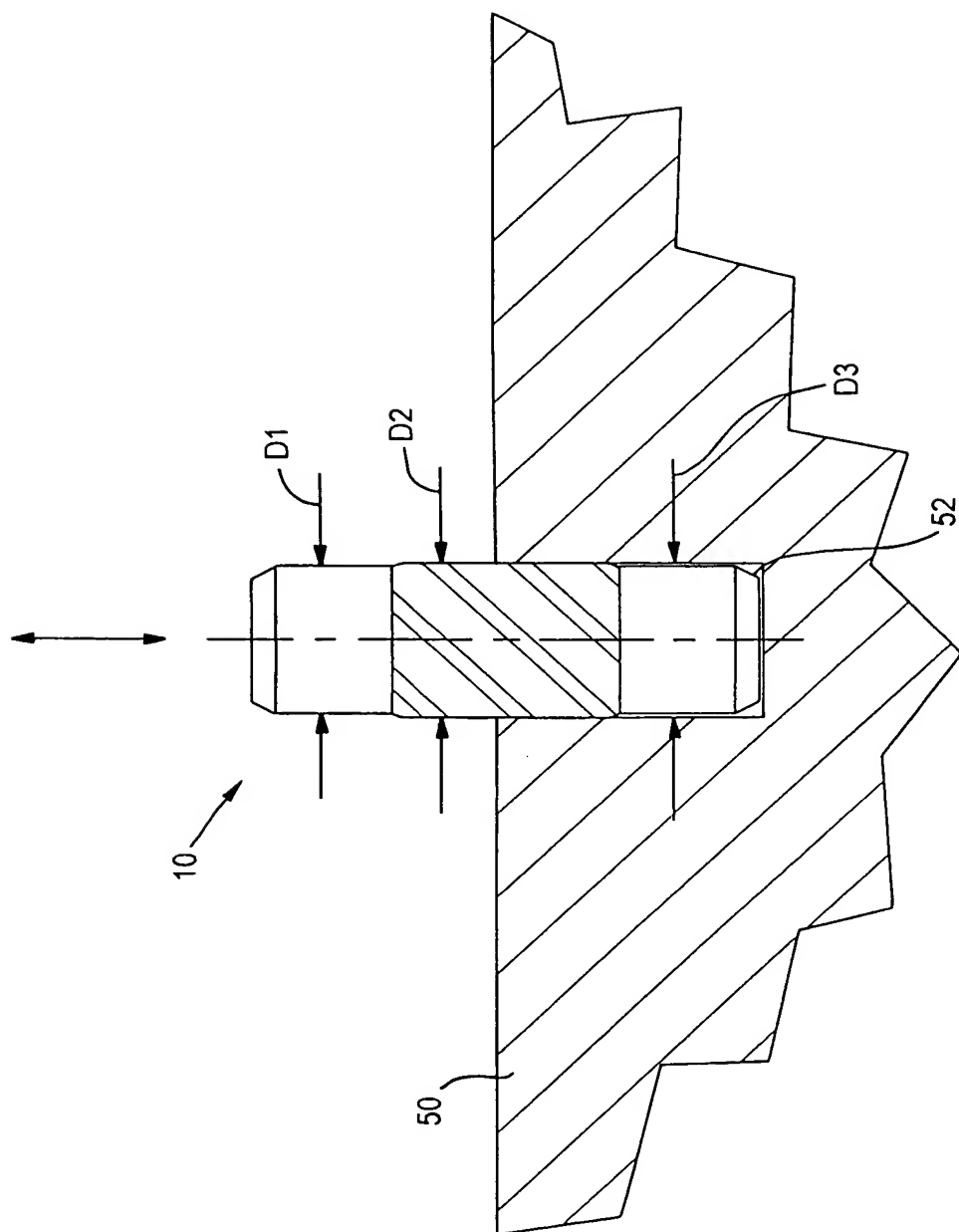


FIG. 6

**REPLACEMENT SHEET**

**PRIOR ART**

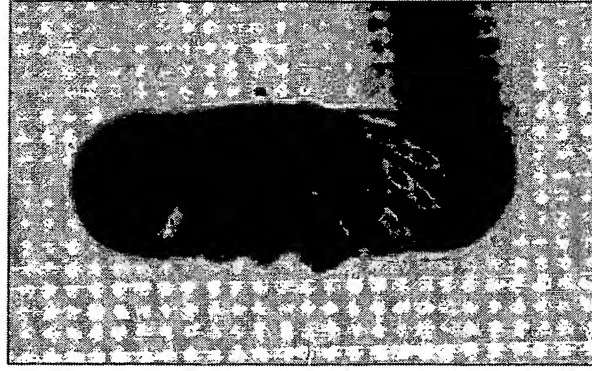


Figure 7

**PRIOR ART**

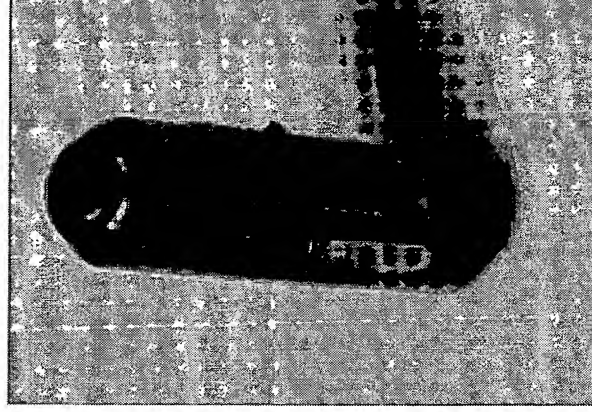


Figure 8

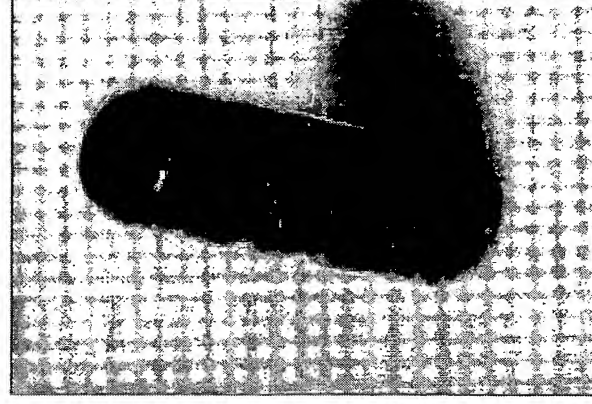


Figure 9

Figure 10

Nominal Diameter	Body Diameter "D1"		Hole Diameter		Expanded Diameter "D2"	
	Min	Max	Min	Max	Min	Max
1.5	1.45	1.5	1.52	1.55	1.57	1.62
2	1.95	2.0	2.02	2.05	2.07	2.12
2.5	2.45	2.5	2.52	2.55	2.57	2.62
3	2.95	3.0	3.02	3.05	3.07	3.12
4	3.95	4.0	4.02	4.05	4.07	4.12
5	4.95	5.0	5.02	5.05	5.07	5.12
6	5.95	6.0	6.02	6.05	6.07	6.12

D2/D1		D2/Hole Dia.	
Min	Max	Min	Max
105%	112%	101%	107%
104%	109%	101%	105%
103%	107%	101%	104%
102%	106%	101%	103%
102%	104%	100.5%	102%
101%	103%	100.4%	102%
101%	103%	100.3%	102%

Table 2

Formula

D1 Max = Nominal Diameter  
D1 Min = Nominal Diameter -0.05mm  
Hole Min = D1 Max +0.02mm  
Hole Max = D1 Max +0.05mm  
D2 Min = Hole Max +0.02mm  
D2 Max = Hole Max +0.07mm

Figure 11

Nominal Diameter	Body Diameter "D1"		Hole Diameter		Expanded Diameter "D2"		D2/D1		D2/Hole Dia.	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1.5	1.45	1.5	1.52	1.55	1.57	1.62	105%	112%	101%	107%
2	1.95	2.0	2.02	2.05	2.07	2.12	104%	109%	101%	105%
2.5	2.45	2.5	2.52	2.55	2.57	2.62	103%	107%	101%	104%
3	2.95	3.0	3.02	3.05	3.07	3.12	102%	106%	101%	103%
4	3.95	4.0	4.02	4.05	4.07	4.12	102%	104%	100.5%	102%
5	4.95	5.0	5.02	5.05	5.07	5.12	101%	103%	100.4%	102%
6	5.95	6.0	6.02	6.05	6.07	6.12	101%	103%	100.3%	102%

Table 3

Formula

D1 Max	= Nominal Diameter
D1 Min	= Nominal Diameter -0.05mm
Hole Min	= D1 Max +0.02mm
Hole Max	= D1 Max +0.05mm
D2 Min	= Hole Max +0.02mm
D2 Max	= Hole Max +0.07mm